

**Notice of Allowability**

Application No.

09/839,524

Examiner

Qamrun Nahar

Applicant(s)

CHARISIUS ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the appeal brief filed on 09/21/2006.
2. ☒ The allowed claim(s) is/are 1-8, 19-23, 32-39, 50-54 and 63-69, renumbered 1-33.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.  
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application  |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>20061026</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|  | 9. <input type="checkbox"/> Other _____  |

### **DETAILED ACTION**

1. This action is in response to the appeal brief filed on 09/21/2006.
2. The rejection under 35 U.S.C. 102(e) as being anticipated by Carpenter-Smith (U.S. 5,838,973) to claims 1, 5-9, 12-19, 23-24, 27-32, 36-40, 43-50, 54-55, 58-63, 66-67 and 70 is withdrawn in view of Examiner's Amendment (See the Examiner's Amendment below).
3. The rejection under 35 U.S.C. 103(a) as being unpatentable over Carpenter-Smith (U.S. 5,838,973) in view of Mutschler (U.S. 6,381,743) to claims 2-4, 10-11, 20-22, 25-26, 33-35, 41-42, 51-53, 56-57, 64-65 and 68-69 is withdrawn in view of Examiner's Amendment (See the Examiner's Amendment below).
4. Claims 9-18, 24-31, 40-49, 55-62 and 70 have been canceled (See the Examiner's Amendment below).
5. Claims 32-39 and 50-54 have been amended (See the Examiner's Amendment below).
6. Claims 1-8, 19-23, 32-39, 50-54 and 63-69 are pending.
7. Claims 1-8, 19-23, 32-39, 50-54 and 63-69 are allowed, renumbered 1-33.

### **EXAMINER'S AMENDMENT**

8. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Howard A. MacCord, Jr. (Reg. No. 28,639) on 10/24/06.

The application has been amended as follows:

**In the Claims:**

Please cancel claims 9-18, 24-31, 40-49, 55-62 and 70, and  
please amend claims 32-39 and 50-54 as follows:

9-18. (Canceled)

24-31. (Canceled)

**Claim 32 (Currently amended),**

At line 1, before “medium” insert storage.

**Claim 33 (Currently amended),**

At line 1, before “medium” insert storage.

**Claim 34 (Currently amended),**

At line 1, before “medium” insert storage.

**Claim 35 (Currently amended),**

At line 1, before “medium” insert storage.

**Claim 36 (Currently amended),**

At line 1, before “medium” insert storage.

**Claim 37 (Currently amended),**

At line 1, before “medium” insert storage.

**Claim 38 (Currently amended),**

At line 1, before “medium” insert storage.

**Claim 39 (Currently amended),**

At line 1, before “medium” insert storage.

40-49. (Canceled)

**Claim 50 (Currently amended),**

At line 1, before “medium” insert storage.

**Claim 51 (Currently amended),**

At line 1, before “medium” insert storage.

**Claim 52 (Currently amended),**

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At line 1, before “medium” insert storage.

**Claim 53 (Currently amended),**

At line 1, before “medium” insert storage.

**Claim 54 (Currently amended),**

At line 1, before “medium” insert storage.

55-62. (Canceled)

70. (Canceled)

- END -

**REASONS FOR ALLOWANCE**

9. The following is an examiner’s statement of reasons for allowance:

The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, determining whether the data structure includes a group attribute identifying at least one of the data elements as group attribute member; when it is determined that the data structure includes a group attribute, displaying a group symbol; displaying a first link between the group symbol and the diagram that is associated with the identified at least one data element; and displaying a second link between the group symbol and the diagram of the data

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element having the associated group attribute as recited in independent claims 1 and 32; further fail to teach determining whether the graphical representation has a group symbol; when it is determined that the graphical representation has a group symbol, determining whether the group symbol is a destination in a first link with a first of the data element diagrams; when it is determined that the group symbol is a destination in a first link with a first of the data element diagrams, adding a group definition to the data definition file that includes the name of the first data element diagram; determining whether the group symbol is a source in a second link with a second of the data element diagrams; and when it is determined that the group symbol is a source in a second link with a second of the data element diagrams, adding to the data element identifier corresponding to the second element diagram a reference corresponding to the group definition as recited in independent claims 19 and 50; and further fail to teach receives a second request to automatically generate a second data definition file from the second graphical representation such that the second data definition file has second data elements and relationships between the second data elements reflecting the second data element diagrams and the relationships between the second data element diagrams of the second graphical representation, and that automatically generates the second data definition file responsive to receiving the second request as recited in independent claim 63.

The closest cited prior art, Carpenter-Smith (U.S. 5,838,973) teaches a method of generating a data model from a data definition file. However, Carpenter-Smith (U.S. 5,838,973) fails to teach determining whether the data structure includes a group attribute identifying at least one of the data elements as group attribute member; when it is determined that the data structure includes a group attribute, displaying a group symbol; displaying a first link between the group

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symbol and the diagram that is associated with the identified at least one data element; and displaying a second link between the group symbol and the diagram of the data element having the associated group attribute as recited in independent claims 1 and 32; further fail to teach determining whether the graphical representation has a group symbol; when it is determined that the graphical representation has a group symbol, determining whether the group symbol is a destination in a first link with a first of the data element diagrams; when it is determined that the group symbol is a destination in a first link with a first of the data element diagrams, adding a group definition to the data definition file that includes the name of the first data element diagram; determining whether the group symbol is a source in a second link with a second of the data element diagrams; and when it is determined that the group symbol is a source in a second link with a second of the data element diagrams, adding to the data element identifier corresponding to the second element diagram a reference corresponding to the group definition as recited in independent claims 19 and 50; and further fail to teach receives a second request to automatically generate a second data definition file from the second graphical representation such that the second data definition file has second data elements and relationships between the second data elements reflecting the second data element diagrams and the relationships between the second data element diagrams of the second graphical representation, and that automatically generates the second data definition file responsive to receiving the second request as recited in independent claim 63.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

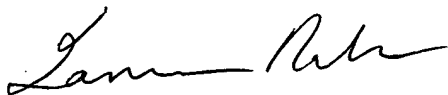
***Conclusion***

10. Any inquiry concerning this communication from the examiner should be directed to Qamrun Nahar whose telephone number is (571) 272-3730. The examiner can normally be reached on Mondays through Fridays from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Y Zhen, can be reached on (571) 272-3708. The fax phone number for the organization where this application or processing is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Qamrun Nahar  
October 26, 2006



WEI ZHEN  
SUPERVISORY PATENT EXAMINER